

## 2.25 WATT SIP DC/DC CONVERTERS

### FEATURES

- ① 1.5, 2.25 to 2.34 Watts
- ② Up to 80% Efficiency
- ③ Momentary Short Circuit Protection
- ④ 12-Pin SIP Package

### GENERAL SPECIFICATIONS

- Efficiency (unregulated) ..... 70%
- Efficiency (regulated) ..... 50%
- Switching Frequency ..... 50KHz min.
- Isolation Voltage ..... 500Vdc min.
- Operating Temperature ..... 0 to +70°C

### INPUT SPECIFICATIONS

- Voltage ..... 5, 12 or 24Vdc
- Voltage Range ..... ±5%
- Input Filter ..... Cap

### OUTPUT SPECIFICATIONS

- Voltage ..... Per Table
- Voltage Accuracy ..... ±5%
- Ripple & Noise 20MHz BW ..... 100mV p-p
- Load Regulation (unregulated)..... ±8%
- Load Regulation (regulated)..... ±.5%

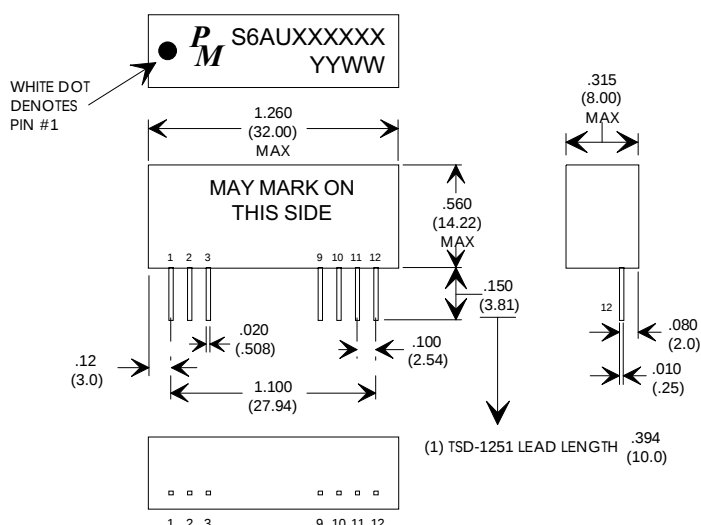
### ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE 0°C TO 70°C

| PART NUMBER             | INPUT VOLTAGE (Vdc) | OUTPUT VOLTAGE (Vdc) | OUTPUT CURRENT (mA max.) | REGULATED OUTPUT | INPUT CURRENT (mA typ.) |           |
|-------------------------|---------------------|----------------------|--------------------------|------------------|-------------------------|-----------|
|                         |                     |                      |                          |                  | NO LOAD                 | FULL LOAD |
| S6AU050925              | 5                   | 9                    | 250                      | NO               | -----                   | 600       |
| TSD-1251 <sup>(1)</sup> | 5                   | 9                    | 250                      | NO               | -----                   | 600       |
| S6AU120925              | 12                  | 9                    | 250                      | NO               | -----                   | 300       |
| TSD-515                 | 5                   | 5.2                  | 450                      | NO               | -----                   | 600       |
| S6AU242407(2)           | 24                  | 24                   | 70                       | YES              | -----                   | -----     |

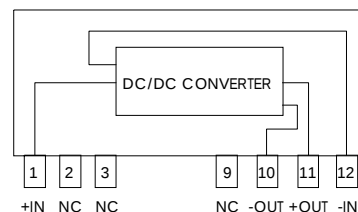
### PACKAGE

#### PHYSICAL DIMENSIONS .... DIMENSIONS IN mm (inches)

- (1) TSD-1251 LEAD LENGTH IS .472" (12.0mm)
- (2) S6AU242407: L=1.35"(34.3mm)MAX. W =.40"(10.16mm)MAX, HT=.61(15.5mm)MAX.



#### SCHEMATIC DIAGRAM



| PIN NUMBER | FUNCTION |
|------------|----------|
| 1          | +INPUT   |
| 2          | NC       |
| 3          | NC       |
| 4          | OMITTED  |
| 5          | OMITTED  |
| 6          | OMITTED  |
| 7          | OMITTED  |
| 8          | OMITTED  |
| 9          | NC       |
| 10         | -OUTPUT  |
| 11         | +OUTPUT  |
| 12         | -INPUT   |

Specifications subject to change without notice.

s6au 07/00